In the Claims

This listing of claims will replace all prior versions, and listings, of claims.

Listing of Claims

1-14. Canceled.

15. (currently amended) A renewing method for a glass molding die, comprising:

providing a used glass molding die comprising a substrate, a first noble metal layer overlying the substrate, a second noble metal layer overlying the first noble metal layer, a carbon-containing third noble metal layer <u>directly on overlying</u> the second noble metal layer, and a diamond-like carbon (DLC) passivation film <u>directly on overlying</u> the third noble metal layer;

removing the passivation film and partially removing the third noble metal layer using oxygen plasma;

grinding and polishing the molding die to completely remove the third noble metal layer;

cleaning the polished molding die;

forming a fourth noble metal layer <u>directly on</u> overlying the second noble metal layer; and

forming a second passivation film <u>directly on overlying</u> the fourth noble metal layer, wherein the second passivation film comprises the same material as the passivation film <u>directly on overlying</u> the third noble metal layer.

- 16. (original) The method as claimed in claim 15, wherein the substrate comprises tungsten carbide.
- 17. (previously presented) The method as claimed in claim 15, wherein the first noble metal layer comprises Ni-containing Ir-Re alloy.
- 18. (original) The method as claimed in claim 15, wherein the thickness of first noble metal layer comprises about 0.3 to 0.6µm.
- 19. (original) The method as claimed in claim 15, wherein the second noble metal layer comprises Ir-Re alloy.
- 20. (original) The method as claimed in claim 15, wherein the thickness of second noble metal layer is about 0.3 to 0.6μm.
- 21. (previously presented) The method as claimed in claim 1, wherein the thickness of third noble metal layer is about 0.01 to 0.05µm.

- 22. (previously presented) The method as claimed in claim 15, wherein the third noble metal layer comprises carbon-containing Ir-Re alloy with C, Ir, and Re atoms therein arranged as superlattice.
- 23. (original) The method as claimed in claim 15, wherein the third noble metal layer comprises carburized Ir-Re alloy.
- 24. (previously presented) The method as claimed in claim 15, wherein the fourth noble metal layer comprises the same material as the third noble metal layer.
- 25. (previously presented) The method as claimed in claim 15, wherein the fourth noble metal layer comprises carbon-containing Ir-Re alloy with C, Ir, and Re atoms therein arranged as superlattice.
- 26. (original) The method as claimed in claim 25, further comprising forming the fourth noble metal layer using co-sputtering with multiple targets.
- 27. (original) The method as claimed in claim 25, wherein carbon concentration in the fourth noble metal layer is approximately 20% or more.
- 28. (original) The method as claimed in claim 15, wherein the fourth noble metal layer comprises carburized Ir-Re alloy.

29. (original) The method as claimed in claim 28, wherein forming the fourth noble metal layer further comprises:

forming a Ir-Re alloy layer overlying the second noble metal layer; and implanting carbon ions into a surface of the Ir-Re alloy layer, thereby carburizing the Ir-Re alloy layer.

- 30. (original) The method as claimed in claim 28, wherein carbon concentration in the carburized surface of the fourth noble metal layer is approximately 20% or more.
- 31. (original) The method as claimed in claim 15, wherein the thickness of second passivation film is about 0.01 to 0.3µm.
- 32. (original) The method as claimed in claim 1, wherein the second passivation film has a molding surface.